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OM protein - protein search, using sw model

Run on: June 18, 2004, 12:51:28 ; Search time 49 seconds
(without alignments)
1371.238 Million cell updates/sec

Title: US-09-872-364-22

Perfect score: 1276

Sequence: 1 MSKGEELFTGVPIILVELDGVNGQKFSVSGEGDATYKGLTKLKEICTTGLPVPWPTL 238

Scoring table: BLOSUM62
Gap 10.0, Gapext 0.5

Searched: 1163542 seqs, 282313646 residues

Total number of hits satisfying chosen parameters: 1163542

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1276	100.0	238	9	US-09-872-364-22
2	1276	100.0	238	9	US-09-999-745-3
3	1276	100.0	238	12	US-10-460-524-10
4	1276	100.0	238	14	US-10-348-074-36
5	1271	99.6	237	12	US-10-421-285-13
6	1270	99.5	238	9	US-09-872-364-18
7	1267	99.3	238	9	US-09-872-364-20
8	1267	99.3	238	9	US-10-072-036-69
9	1267	99.3	624	14	US-10-072-036-57
10	1267	99.3	916	14	US-10-072-036-73
11	1265	99.1	238	9	US-09-872-364-16
12	1264	99.1	238	14	US-10-133-973-9
13	1263	99.0	236	15	US-10-246-838A-6
14	1263	99.0	238	9	US-09-887-784-8
15	1262	98.9	238	9	US-09-887-784-6

16	1262	98.9	238	12	US-10-296-953-6
17	1257	98.5	238	12	US-10-296-953-8
18	1251	98.0	238	9	US-09-920-922-4
19	1251	98.0	238	9	US-09-852-000-1
20	1251	98.0	238	10	US-09-900-345A-125
21	1251	98.0	238	10	US-09-866-538-2
22	1251	98.0	238	10	US-09-794-308-2
23	1251	98.0	238	10	US-09-865-291-2
24	1251	98.0	238	12	US-10-132-067-8
25	1251	98.0	238	14	US-10-121-258-10
26	1251	98.0	238	14	US-10-221-461-6
27	1251	98.0	238	14	US-10-305-765-10
28	1251	98.0	238	14	US-10-305-765-159
29	1251	98.0	238	14	US-10-305-633-10
30	1251	98.0	238	14	US-10-305-633-159
31	1251	98.0	238	15	US-10-370-570-1
32	1251	98.0	238	15	US-10-370-570-53
33	1251	98.0	238	16	US-10-423-688A-42
34	1251	98.0	238	16	US-10-668-168-4
35	1248	97.8	238	16	US-10-668-168-2
36	1248	97.8	243	10	US-09-900-345A-60
37	1248	97.8	243	10	US-09-900-345A-62
38	1248	97.8	243	10	US-09-900-345A-64
39	1248	97.8	243	10	US-09-900-345A-66
40	1248	97.8	243	10	US-09-900-345A-68
41	1248	97.8	243	10	US-09-900-345A-70
42	1248	97.8	243	14	US-10-305-765-94
43	1248	97.8	243	14	US-10-305-765-96
44	1248	97.8	243	14	US-10-305-765-98
45	1248	97.8	243	14	US-10-305-765-100

ALIGNMENTS

RESULT 1

US-09-872-364-22
; Sequence 22, Application US/09872364
; Patent No. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole THRASTRUP et al.
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0107P
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-872-364-22

Query Match 100.0%; Score 1276; DB 9; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSKGEELFTGVPIILVELDGVNGQKFSVSGEGDATYKGLTKLKEICTTGLPVPWPTL	60
Db	1	MSKGEELFTGVPIILVELDGVNGQKFSVSGEGDATYKGLTKLKEICTTGLPVPWPTL	60
Qy	61	VTTTSYGVCFSRYPDHMKQHFDFKSPAMPEGVQRTIFYKDDGNKYKTRAEVKFGTIV	120
Db	61	VTTTSYGVCFSRYPDHMKQHFDFKSPAMPEGVQRTIFYKDDGNKYKTRAEVKFGTIV	120
Qy	121	NRIELKGIDFKEDGNILGHMKENVYKVINIHADPKPKNGIKVKIRINIKDGSVLAD	180
Db	121	NRIELKGIDFKEDGNILGHMKENVYKVINIHADPKPKNGIKVKIRINIKDGSVLAD	180
Qy	181	HYQQTPTIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFFTAAGITHGMDELYK	238
Db	181	HYQQTPTIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFFTAAGITHGMDELYK	238

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RESULT 2
US-09-999-745-3
; Sequence 3, Application US/09999745
; Patent No. US20020157120A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Baird, Geoffrey
; TITLE OF INVENTION: CIRCULARLY PERMUTED FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: REG1470-1
; CURRENT APPLICATION NUMBER: US/09/999,745
; CURRENT FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: 09/316,920
; PRIOR FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-999-745-3

Query Match      100.0%; Score 1276; DB 9; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAWPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAWPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKVEYNSHNHVIYIMADPKNGIKVNFKIRHNKDGSGVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKVEYNSHNHVIYIMADPKNGIKVNFKIRHNKDGSGVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSQDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSQDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 3
US-10-460-524-10
; Sequence 10, Application US/10460524
; Publication No. US20040029781A1
; GENERAL INFORMATION:
; APPLICANT: Hernan, Ronald A
; APPLICANT: Mehlig, Richard J
; APPLICANT: Broekie, Ian
; APPLICANT: Jenkins, Elizabeth
; TITLE OF INVENTION: Affinity Peptides and Method for Purification of Recombinant Protein
; FILE REFERENCE: SGM 7047.1
; CURRENT APPLICATION NUMBER: US/10/460,524
; CURRENT FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: US 60/388,059
; PRIOR FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-460-524-10

Query Match      100.0%; Score 1276; DB 12; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAWPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAWPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKVEYNSHNHVIYIMADPKNGIKVNFKIRHNKDGSGVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKVEYNSHNHVIYIMADPKNGIKVNFKIRHNKDGSGVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSQDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSQDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 4
US-10-348-074-36
; Sequence 36, Application US/10348074
; Publication No. US20030176386A1
; GENERAL INFORMATION:
; APPLICANT: Morphotek Inc.
; APPLICANT: Grasso, Luigi
; APPLICANT: Kline, J. Bradford
; APPLICANT: Nicolaides, Nicholas C.
; APPLICANT: Sasse, Philip M.
; TITLE OF INVENTION: Method for Generating Engineered Cells for Locus Specific Gene
; TITLE OF INVENTION: Regulation and Analysis
; FILE REFERENCE: MG0003 US (MOR-0140)
; CURRENT APPLICATION NUMBER: US/10/348,074
; CURRENT FILING DATE: 2003-01-17
; PRIOR APPLICATION NUMBER: 60/349,565
; PRIOR FILING DATE: 2002-01-18
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-348-074-36

Query Match      100.0%; Score 1276; DB 14; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAWPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAWPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKVEYNSHNHVIYIMADPKNGIKVNFKIRHNKDGSGVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKVEYNSHNHVIYIMADPKNGIKVNFKIRHNKDGSGVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSQDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSQDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 5
US-10-421-285-13
; Sequence 13, Application US/10421285
; Publication No. US20040053836A1
; GENERAL INFORMATION:
; APPLICANT: MayerKuckuk, Phillip
; APPLICANT: Banerjee, Debabrata
; APPLICANT: Bertino, Joseph R.
; TITLE OF INVENTION: Method for Modulating the Production of a Selected Protein In Vivo
; TITLE OF INVENTION: Vivo
; FILE REFERENCE: MSK-P-053
; CURRENT APPLICATION NUMBER: US/10/421,285
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; CURRENT FILING DATE: 2003-04-22
; PRIOR APPLICATION NUMBER: US 60/375,250
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 13
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-421-285-13

Query Match 99.6%; Score 1271; DB 12; Length 237;
Best Local Similarity 100.0%; Pred. No. 5.5e-124;
Matches 237; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SKGSELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 61
DB 1 SKGSELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 60

QY 62 TTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVAFEGDTLVN 121
DB 61 TTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVAFEGDTLVN 120

QY 122 RIELKGIDFKEDGNILGHKMEYNNSHNYIMADPKNGIKVNFKIRHNKDGSVQLADH 181
DB 121 RIELKGIDFKEDGNILGHKMEYNNSHNYIMADPKNGIKVNFKIRHNKDGSVQLADH 180

QY 182 YQONTPTGDPGVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 YQONTPTGDPGVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 237

RESULT 6
US-09-872-364-18
; Sequence 18, Application US/09872364
; Patent No. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole THRASTRUP et al.
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-872-364-18

Query Match 99.5%; Score 1270; DB 9; Length 238;
Best Local Similarity 99.6%; Pred. No. 7e-124;
Matches 237; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 60
DB 1 MSKGEELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 60

QY 61 VTTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVAFEGDTLV 120
DB 61 VTTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVAFEGDTLV 120

QY 121 NRIELKGIDFKEDGNILGHKMEYNNSHNYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHKMEYNNSHNYIMADPKNGIKVNFKIRHNKDGSVQLAD 180

QY 181 HYQONTPTGDPGVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPTGDPGVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 7
US-09-872-364-20

; Sequence 20, Application US/09872364
; Patent No. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole THRASTRUP et al.
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0107P
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-872-364-20

Query Match 99.3%; Score 1267; DB 9; Length 238;
Best Local Similarity 99.2%; Pred. No. 1.4e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 60
DB 1 MSKGEELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 60

QY 61 VTTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVAFEGDTLV 120
DB 61 VTTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVAFEGDTLV 120

QY 121 NRIELKGIDFKEDGNILGHKMEYNNSHNYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHKMEYNNSHNYIMADPKNGIKVNFKIRHNKDGSVQLAD 180

QY 181 HYQONTPTGDPGVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPTGDPGVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 8
US-10-072-036-69
; Sequence 69, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP
; APPLICANT: Sara BJORN
; APPLICANT: Soren TULLIN
; APPLICANT: Kasper ALMHOLT
; APPLICANT: Kurt SCUDDER
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An Ir
; TITLE OF INVENTION: On A Cellular Response
; FILE REFERENCE: 3759-0120P
; CURRENT APPLICATION NUMBER: US/10/072,036
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/417,197
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 69
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion Construct
US-10-072-036-69

Query Match 99.3%; Score 1267; DB 14; Length 595;
Best Local Similarity 99.2%; Pred. No. 5.3e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 60
DB 355 MSKGEELFTGVVPIIVELDGVNGQKFSVSGEGDATYKGLTLKFICTTGKLPVWPPTLV 414

QY 61 VTTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVAFEGDTLV 120

Db 415 VTTLYGVQCFSRYPDHMKQHDFFKSAMPEGVQERTIFYKDDGNKYNKRAEVKFGDTLV 474
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 180
Db 475 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 534
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 535 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 592

RESULT 9

US-10-072-036-57
; Sequence 57, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
; APPLICANT: Sara BJRON
; APPLICANT: Ole THASTRUP
; APPLICANT: Soren TULLIN
; APPLICANT: Kasper ALMHOLT
; APPLICANT: Kurt SCUDDER
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; FILE REFERENCE: 3759-0120P
; CURRENT APPLICATION NUMBER: US/10/072,036
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/417,197
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 624
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: mERK1-F64L-S65T-GFP fusion
US-10-072-036-57

Query Match 99.3%; Score 1267; DB 14; Length 624;
Best Local Similarity 99.2%; Pred. No. 5.7e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTLLKFKICTTGKLPVWPPTL 60
Db 384 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTLLKFKICTTGKLPVWPPTL 443
Qy 61 VTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGVQERTIFYKDDGNKYNKRAEVKFGDTLV 120
Db 444 VTTLYGVQCFSRYPDHMKQHDFFKSAMPEGVQERTIFYKDDGNKYNKRAEVKFGDTLV 503
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 180
Db 504 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 563
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 564 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 621

RESULT 10

US-10-072-036-73
; Sequence 73, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP
; APPLICANT: Sara BJRON
; APPLICANT: Soren TULLIN
; APPLICANT: Kasper ALMHOLT
; APPLICANT: Kurt SCUDDER
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; FILE REFERENCE: 3759-0120P

; CURRENT APPLICATION NUMBER: US/10/072,036
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/417,197
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
; LENGTH: 916
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion construct
US-10-072-036-73

Query Match 99.3%; Score 1267; DB 14; Length 916;
Best Local Similarity 99.2%; Pred. No. 9.8e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTLLKFKICTTGKLPVWPPTL 60
Db 676 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTLLKFKICTTGKLPVWPPTL 735
Qy 61 VTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGVQERTIFYKDDGNKYNKRAEVKFGDTLV 120
Db 736 VTTLYGVQCFSRYPDHMKQHDFFKSAMPEGVQERTIFYKDDGNKYNKRAEVKFGDTLV 795
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 180
Db 796 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 855
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 856 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 913

RESULT 11

US-09-872-364-16
; Sequence 16, Application US/09872364
; Patent No. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP et al.
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0107P
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-872-364-16

Query Match 99.1%; Score 1265; DB 9; Length 238;
Best Local Similarity 99.2%; Pred. No. 2.3e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTLLKFKICTTGKLPVWPPTL 60
Db 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTLLKFKICTTGKLPVWPPTL 60
Qy 61 VTFYSYGVQCFSRYPDHMKQHDFFKSAMPEGVQERTIFYKDDGNKYNKRAEVKFGDTLV 120
Db 61 VTTLSHGVCFSRYPDHMKQHDFFKSAMPEGVQERTIFYKDDGNKYNKRAEVKFGDTLV 120
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 180
Db 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSSVOLAD 180
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 181 HYQONTPIGDGPVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 12

US-10-133-973-9
; Sequence 9, Application US/10133973
; Publication No. US20030149254A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; TITLE OF INVENTION: METHODS AND COMPOSITIONS COMPRISING RENILLA GPP
; FILE REFERENCE: A-68531-3/RMS/CYO
; CURRENT APPLICATION NUMBER: US/10/133,973
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 60/290,287
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: US 09/710,058
; PRIOR FILING DATE: 2000-11-10
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-133-973-9

Query Match 99.4%; Score 1264; DB 14; Length 238;
Best Local Similarity 99.4%; Pred. No. 2.9e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY	1	MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKLTLLKFKICTTGKLPVWPPTL	60
DB	1	MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKLTLLKFKICTTGKLPVWPPTL	60
QY	61	VTTFSYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV	120
DB	61	VTTFSYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV	120
QY	121	NRIELKGIDFKEDGNILGHMKWEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD	180
DB	121	NRIELKGIDFKEDGNILGHMKWEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD	180
QY	181	HYQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHLLFEVTAAGITHGMDELYK	238
DB	181	HYQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHLLFEVTAAGITHGMDELYK	238

RESULT 13

US-10-246-838A-6
; Sequence 6, Application US/10246838A
; Publication No. US20040002156A1
; GENERAL INFORMATION:
; APPLICANT: Greener, Alan L.
; APPLICANT: Hexdall, Lisa Joy
; APPLICANT: Peter-Carstens, Carsten
; APPLICANT: Sorge, Joseph A.
; TITLE OF INVENTION: Selective Cloning of Homoduplex Nucleic Acids
; FILE REFERENCE: 25436/2295
; CURRENT APPLICATION NUMBER: US/10/246,838A
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 10/180,174
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-246-838A-6

Query Match 99.0%; Score 1263; DB 15; Length 236;
Best Local Similarity 99.6%; Pred. No. 3.7e-123;
Matches 235; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY	3	KGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKLTLLKFKICTTGKLPVWPPTL	62

DB	1	KGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKLTLLKFKICTTGKLPVWPPTL	60
QY	63	TFSYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV	122
DB	61	TFSYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV	120
QY	123	IELKGIDFKEDGNILGHMKWEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLADHY	182
DB	121	IELKGIDFKEDGNILGHMKWEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLADHY	180
QY	183	QONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHLLFEVTAAGITHGMDELYK	238
DB	181	QONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHLLFEVTAAGITHGMDELYK	236

RESULT 14

US-09-887-784-8
; Sequence 8, Application US/09887784
; Patent No. US20020177189A1
; GENERAL INFORMATION:
; APPLICANT: BJORN, Sara et al
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0115P
; CURRENT APPLICATION NUMBER: US/09/887,784
; CURRENT FILING DATE: 2001-06-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-887-784-8

Query Match 99.0%; Score 1263; DB 9; Length 238;
Best Local Similarity 99.2%; Pred. No. 3.7e-123;
Matches 236; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY	1	MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKLTLLKFKICTTGKLPVWPPTL	60
DB	1	MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKLTLLKFKICTTGKLPVWPPTL	60
QY	61	VTTFSYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV	120
DB	61	VTTLSYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV	120
QY	121	NRIELKGIDFKEDGNILGHMKWEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD	180
DB	121	NRIELKGIDFKEDGNILGHMKWEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD	180
QY	181	HYQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHLLFEVTAAGITHGMDELYK	238
DB	181	HYQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHLLFEVTAAGITHGMDELYK	238

RESULT 15

US-09-887-784-6
; Sequence 6, Application US/09887784
; Patent No. US20020177189A1
; GENERAL INFORMATION:
; APPLICANT: BJORN, Sara et al
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0115P
; CURRENT APPLICATION NUMBER: US/09/887,784
; CURRENT FILING DATE: 2001-06-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-887-784-6

Query Match 98.9%; Score 1262; DB 9; Length 238;

Best Local Similarity 99.2%; Pred. No. 4.8e-123;
 Matches 236; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	1	MSKGEELFTGVVPIILVELDGVNGQKFSVSGEGDATYGKLTKEICTTGKLPVWPPTL	60
Db	1	MSKGEELFTGVVPIILVELDGVNGQKFSVSGEGDATYGKLTKEICTTGKLPVWPPTL	60
Qy	61	VTFESYGVQCFSRYPDHMKQHDFFPKSAMPEGYVQERTIFYKDDGNYKTRAEVKPEGDTLV	120
Db	61	VTTLSYGVQCFSRYPDHMKQHDFFPKSAMPEGYVQERTIFYKDDGNYKTRAEVKPEGDTLV	120
Qy	121	NRIELKIDPKEDGNILGHKMEYNYNHNVYIMADKPNKGIKVNFKIRHNKDGSVQLAD	180
Db	121	NRIELKIDPKEDGNILGHKMEYNYNHNVYIMADKPNKGIKVNFKIRHNKDGSVQLAD	180
Qy	181	HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMILLEFVTAAGITHGMDELYK	238
Db	181	HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMILLEFVTAAGITHGMDEGYK	238

Search completed: June 18, 2004, 12:57:23
 Job time : 51 secs

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OM protein - protein search, using sw model

Run on: June 18, 2004, 12:48:48 ; Search time 22 Seconds
(without alignments)
558.439 Million cell updates/sec

Title: US-09-872-364-22
Perfect score: 1276
Sequence: 1 MSKGEELFTGVVPIVLDG.....ILLEFVTAAGITHGMDELYK 238

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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2: /cgn2_6/ptodata/2/iaa/5B COMB.pap.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pap.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match %	Score	Length	ID	Description
1	1276	100.0	238	2	US-08-818-604-32
2	1276	100.0	238	3	US-08-819-612-22
3	1276	100.0	238	4	US-09-316-919-3
4	1276	100.0	238	4	US-09-346-946-32
5	1270	99.5	238	3	US-08-819-612-18
6	1267	99.3	238	3	US-08-819-612-20
7	1267	99.3	595	4	US-09-417-197-69
8	1267	99.3	624	4	US-09-417-197-57
9	1267	99.3	916	4	US-09-417-197-73
10	1265	99.1	238	3	US-08-819-612-16
11	1255	98.4	238	4	US-09-213-343-4
12	1251	98.0	238	1	US-08-337-915A-2
13	1251	98.0	238	3	US-09-121-539-1
14	1251	98.0	238	4	US-09-214-909-2
15	1251	98.0	238	4	US-09-478-645A-10
16	1251	98.0	238	4	US-09-479-645A-159
17	1251	98.0	238	4	US-09-472-065A-4
18	1251	98.0	238	4	US-09-920-922-4
19	1251	98.0	238	5	PCN-US95-14692-2
20	1249	97.9	238	3	US-08-643-704A-49
21	1248	97.8	238	4	US-09-472-065A-2
22	1248	97.8	243	4	US-09-479-645A-94
23	1248	97.8	243	4	US-09-479-645A-96
24	1248	97.8	243	4	US-09-479-645A-98
25	1248	97.8	243	4	US-09-479-645A-100
26	1248	97.8	243	4	US-09-479-645A-102
27	1248	97.8	243	4	US-09-479-645A-104

28	1248	97.8	243	4	US-09-479-645A-110	Sequence 110, Appl
29	1248	97.8	1070	4	US-09-091-042A-2	Sequence 2, Appli
30	1248	97.8	1452	4	US-09-127-227-2	Sequence 2, Appli
31	1247	97.7	238	1	US-08-753-143-2	Sequence 2, Appli
32	1247	97.7	238	2	US-08-679-865-2	Sequence 2, Appli
33	1247	97.7	238	2	US-08-680-876-2	Sequence 2, Appli
34	1247	97.7	238	2	US-08-792-553-2	Sequence 2, Appli
35	1247	97.7	238	3	US-08-753-144-2	Sequence 2, Appli
36	1247	97.7	238	3	US-09-094-359-2	Sequence 2, Appli
37	1247	97.7	238	3	US-09-172-063-2	Sequence 2, Appli
38	1247	97.7	238	3	US-09-263-975-2	Sequence 2, Appli
39	1247	97.7	238	4	US-08-727-452-2	Sequence 2, Appli
40	1247	97.7	238	4	US-09-418-785-1	Sequence 1, Appli
41	1247	97.7	238	4	US-09-129-192C-2	Sequence 2, Appli
42	1247	97.7	238	4	US-09-129-192C-74	Sequence 74, Appli
43	1247	97.7	238	4	US-09-602-641-2	Sequence 2, Appli
44	1247	97.7	238	4	US-09-704-463-2	Sequence 2, Appli
45	1247	97.7	243	4	US-09-479-645A-88	Sequence 88, Appli

ALIGNMENTS

RESULT 1
US-08-818-604-32
; Sequence 32, Application US/08818604C
; Patent No. 5958713
; GENERAL INFORMATION:
; APPLICANT: Thastrup, Ole
; APPLICANT: Tullin, Soren
; APPLICANT: Poulsen, Lars
; APPLICANT: Bjorn, Sara
; TITLE OF INVENTION: A Method Of Detecting Biologically Active Substances
; FILE REFERENCE: 4301.204-US
; CURRENT APPLICATION NUMBER: US/08/818,604C
; CURRENT FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: 0110/95
; EARLIER FILING DATE: 1995-01-31
; EARLIER APPLICATION NUMBER: 0982/95
; EARLIER FILING DATE: 1995-09-07
; EARLIER APPLICATION NUMBER: PCT/DK96/00052
; EARLIER FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequora victoria
US-08-818-604-32

Query Match	100.0%;	Score 1276;	DB 2;	Length 238;
Best Local Similarity	100.0%;	Pred. No. 1.7e-129;	Mismatches 0;	Indels 0;
Matches 238;	Conservative 0;			Gaps 0;
Qy	1	MSKGEELFTGVVPIVLDGDNVQKFSVSGEGGDATYKLTFLKFICTTGKLPVWPFL 60		
Db	1	MSKGEELFTGVVPIVLDGDNVQKFSVSGEGGDATYKLTFLKFICTTGKLPVWPFL 60		
Qy	61	VTFESYGVOCFSRYPDHMKOHDFKSMPEGVQVORTIFYKDDGNKTRAEVKFEGDTLV 120		
Db	61	VTFESYGVOCFSRYPDHMKOHDFKSMPEGVQVORTIFYKDDGNKTRAEVKFEGDTLV 120		
Qy	121	NRIELKIDFKEDGNILGHKMEYNNSHNVIMADKPKNGIKVNFKIRHNKDGSVOLAD 180		
Db	121	NRIELKIDFKEDGNILGHKMEYNNSHNVIMADKPKNGIKVNFKIRHNKDGSVOLAD 180		
Qy	181	HYQNTPIGSGVLLPDNHYLSTQSALSADKPNKRKDHMLLEFVTAAGITHGMDELYK 238		
Db	181	HYQNTPIGSGVLLPDNHYLSTQSALSADKPNKRKDHMLLEFVTAAGITHGMDELYK 238		

RESULT 2

US-08-819-612-22
; Sequence 22, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 22
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-22

Query Match 100.0%; Score 1276; DB 3; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-129;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKILKIKCTTGKLPVWPPTL 60
Db 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKILKIKCTTGKLPVWPPTL 60
Qy 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNKYKTRAEVKEGDTLV 120
Db 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNKYKTRAEVKEGDTLV 120
Qy 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
Db 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 3
US-09-316-919-3
; Sequence 3, Application US/09316919
; Patent No. 6469154
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Baird, Geoffrey
; TITLE OF INVENTION: FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: 07257/073001
; CURRENT APPLICATION NUMBER: US/09/316,919
; CURRENT FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-316-919-3

Query Match 100.0%; Score 1276; DB 4; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-129;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKILKIKCTTGKLPVWPPTL 60
Db 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKILKIKCTTGKLPVWPPTL 60
Qy 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNKYKTRAEVKEGDTLV 120
Db 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNKYKTRAEVKEGDTLV 120
Qy 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
Db 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180

Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
RESULT 4
US-09-346-946-32
; Sequence 32, Application US/09346946
; Patent No. 6566093
; GENERAL INFORMATION:
; APPLICANT: Thastrup, Ole
; APPLICANT: Tullin, Soren
; APPLICANT: Poulsen, Lars
; APPLICANT: Bjorn, Sara
; TITLE OF INVENTION: A Method Of Detecting Biologically
; TITLE OF INVENTION: Active Substances
; FILE REFERENCE: 4301.204-US
; CURRENT APPLICATION NUMBER: US/09/346,946
; CURRENT FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: US/08/818,604
; PRIOR FILING DATE: 1997-03-14
; PRIOR APPLICATION NUMBER: 0110/95
; PRIOR FILING DATE: 1995-01-31
; PRIOR APPLICATION NUMBER: 0982/95
; PRIOR FILING DATE: 1995-09-07
; PRIOR APPLICATION NUMBER: PCT/DK96/00052
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-346-946-32

Query Match 100.0%; Score 1276; DB 4; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-129;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKILKIKCTTGKLPVWPPTL 60
Db 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKILKIKCTTGKLPVWPPTL 60
Qy 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNKYKTRAEVKEGDTLV 120
Db 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNKYKTRAEVKEGDTLV 120
Qy 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
Db 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 5
US-08-819-612-18
; Sequence 18, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 18
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-18


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; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 69
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion Construct
US-09-417-197-69

Query Match          99.5%; Score 1270; DB 3; Length 238;
Best Local Similarity 99.6%; Pred. No. 7.6e-129;
Matches 237; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 60

QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 61 VTTLTYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238

RESULT 6
US-08-819-612-20
; Sequence 20, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-20

Query Match          99.3%; Score 1267; DB 3; Length 238;
Best Local Similarity 99.2%; Pred. No. 1.6e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 60

QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 61 VTTLTYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238

RESULT 7
US-09-417-197-69
; Sequence 69, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; FILE REFERENCE: 3759-0110P
; CURRENT APPLICATION NUMBER: US/09/417,197
; CURRENT FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
```

```
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 69
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion Construct
US-09-417-197-69

Query Match          99.3%; Score 1267; DB 4; Length 595;
Best Local Similarity 99.2%; Pred. No. 6.3e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 60
DB 355 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 414

QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 415 VTTLTYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 474

QY 121 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 475 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 534

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238
DB 535 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 592

RESULT 8
US-09-417-197-57
; Sequence 57, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An Ir
; FILE REFERENCE: On A Cellular Response
; CURRENT APPLICATION NUMBER: US/09/417,197
; CURRENT FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 624
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MERK1-F64L-S65T-GFP fusion
US-09-417-197-57

Query Match          99.3%; Score 1267; DB 4; Length 624;
Best Local Similarity 99.2%; Pred. No. 6.8e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 60
DB 384 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGKLTALKFICTTGKLPVPMPTL 443

QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 444 VTTLTYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 503

QY 121 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 504 NRIELKGIDFEDGNILGHKMEYNNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 563

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238
DB 564 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 621

RESULT 9
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US-09-417-197-73
; Sequence 73, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; TITLE OF INVENTION: On A Cellular Response
; FILE REFERENCE: 3759-0110P
; CURRENT APPLICATION NUMBER: US/09/417,197
; CURRENT FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
; LENGTH: 916
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion construct
US-09-417-197-73

Query Match          99.3%; Score 1267; DB 4; Length 916;
Best Local Similarity 99.2%; Pred. No. 1.2e-127;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Db 676 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 735
Qy 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Db 736 VTTLTGSGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 795
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180
Db 796 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 855
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 856 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 513

RESULT 10
US-08-819-612-16
; Sequence 16, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-16

Query Match          99.1%; Score 1265; DB 3; Length 238;
Best Local Similarity 99.2%; Pred. No. 2.6e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Db 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Qy 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Db 61 VTTLTGSGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180
Db 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180

US-09-417-197-73
; Sequence 73, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; TITLE OF INVENTION: On A Cellular Response
; FILE REFERENCE: 3759-0110P
; CURRENT APPLICATION NUMBER: US/09/417,197
; CURRENT FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
; LENGTH: 916
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion construct
US-09-417-197-73

Query Match          99.3%; Score 1267; DB 4; Length 916;
Best Local Similarity 99.2%; Pred. No. 1.2e-127;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Db 676 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 735
Qy 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Db 736 VTTLTGSGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 795
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180
Db 796 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 855
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 856 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 513

RESULT 10
US-08-819-612-16
; Sequence 16, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-16

Query Match          99.1%; Score 1265; DB 3; Length 238;
Best Local Similarity 99.2%; Pred. No. 2.6e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Db 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Qy 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Db 61 VTTLTGSGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180
Db 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180

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Db 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 11
US-09-213-343-4
; Sequence 4, Application US/09213343
; Patent No. 6316252
; GENERAL INFORMATION:
; APPLICANT: Harms, Jerome S.
; APPLICANT: Splitter, Gary A.
; TITLE OF INVENTION: Biotherapeutic Delivery System
; FILE REFERENCE: 960296.95564
; CURRENT APPLICATION NUMBER: US/09/213,343
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-213-343-4

Query Match          98.4%; Score 1255; DB 4; Length 238;
Best Local Similarity 98.3%; Pred. No. 3.1e-127;
Matches 234; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Db 1 MSKGEELFTGVVPIVLVDGVDVNGHKTFSVSGEGEDATYKGLTLKFICTTGKLPVPWPTL 60
Qy 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Db 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAHPGEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180
Db 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGSGVOLAD 180
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 12
US-08-337-915A-2
; Sequence 2, Application US/08337915A
; Patent No. 5625048
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Heim, Roger
; TITLE OF INVENTION: MODIFIED GREEN FLUORESCENT PROTEINS
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESS: Robbins, Berliner & Carson
; STREET: 201 No. 5625048th Figueroa Street, Suite 500
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90012
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/337,915A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

```

NAME: Spitals, John P.
 REGISTRATION NUMBER: 29,215
 REFERENCE/DOCKET NUMBER: 1279-178
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 977-1001
 TELEFAX: (213) 977-1003
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 238 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-337-915A-2

Query Match 98.0%; Score 1251; DB 1; Length 238;
 Best Local Similarity 97.5%; Pred. No. 8.5e-127;
 Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
 DB 1 MSKGEELFTGVVPIVLVDGVDNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSGVQCFSRYPDMKHQDFFKSAMPEGVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
 DB 61 VTTFSGVQCFSRYPDMKHQDFFKSAMPEGVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFEDGNILGHKLEYNNSHNYIMADPKNGIKVNFKIRHNIXDGSVOLAD 180
 DB 121 NRIELKGIDFEDGNILGHKLEYNNSHNYIMADPKNGIKVNFKIRHNIXDGSVOLAD 180

QY 181 HYQONTPIGDGVPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
 DB 181 HYQONTPIGDGVPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 13
 US-09-121-539-1
 Sequence 1, Application US/09121539B
 Patent No. 6194548
 GENERAL INFORMATION:
 APPLICANT: Osumi, Takashi
 APPLICANT: Teukamoto, Toshio
 APPLICANT: Teukamoto, No. 6194548iyo
 APPLICANT: Yamasaki, Masatoshi
 TITLE OF INVENTION: GREEN FLUORESCENT PROTEINS AND BLUE FLUORESCENT
 TITLE OF INVENTION: PROTEINS
 FILE REFERENCE: 046124-5005
 CURRENT APPLICATION NUMBER: US/09/121,539B
 PRIOR FILING DATE: 1998-07-24
 PRIOR APPLICATION NUMBER: JP 026418/1998
 PRIOR FILING DATE: 1998-01-23
 NUMBER OF SEQ ID NOS: 14
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 1
 LENGTH: 238
 TYPE: PRT
 ORGANISM: Aequorea victoria
 FEATURE:
 OTHER INFORMATION: Green fluorescent protein
 US-09-121-539-1

Query Match 98.0%; Score 1251; DB 3; Length 238;
 Best Local Similarity 97.5%; Pred. No. 8.5e-127;
 Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
 DB 1 MSKGEELFTGVVPIVLVDGVDNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSGVQCFSRYPDMKHQDFFKSAMPEGVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
 DB 61 VTTFSGVQCFSRYPDMKHQDFFKSAMPEGVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFEDGNILGHKLEYNNSHNYIMADPKNGIKVNFKIRHNIXDGSVOLAD 180
 DB 121 NRIELKGIDFEDGNILGHKLEYNNSHNYIMADPKNGIKVNFKIRHNIXDGSVOLAD 180

QY 181 HYQONTPIGDGVPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
 DB 181 HYQONTPIGDGVPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 14
 US-09-214-909-2
 Sequence 2, Application US/09214909
 Patent No. 6486382
 GENERAL INFORMATION:
 APPLICANT: GORDON-KAMM, WILLIAM
 APPLICANT: PIERCE, DOROTHY A.
 APPLICANT: BOWEN, BENJAMIN
 APPLICANT: BIDNEY, DENNIS
 APPLICANT: ROSS, MARGIT
 APPLICANT: SCHELONGE, CHRISTOPHER
 APPLICANT: MILLER, MICHAEL D.
 APPLICANT: SANDAHL, GARY
 APPLICANT: WANG, LIJUAN
 TITLE OF INVENTION: USE OF THE GREEN FLUORESCENT PROTEIN AS A SCREENABLE
 TITLE OF INVENTION: MARKER FOR PLANT TRANSFORMATION
 FILE REFERENCE: 033229/0682
 CURRENT APPLICATION NUMBER: US/09/214,909
 CURRENT FILING DATE: 1999-12-20
 PRIOR APPLICATION NUMBER: PCT/US97/07688
 PRIOR FILING DATE: 1997-05-01
 PRIOR APPLICATION NUMBER: 60/016,345
 PRIOR FILING DATE: 1996-05-01
 NUMBER OF SEQ ID NOS: 24
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2
 LENGTH: 238
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic GFP
 US-09-214-909-2

Query Match 98.0%; Score 1251; DB 4; Length 238;
 Best Local Similarity 97.5%; Pred. No. 8.5e-127;
 Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
 DB 1 MSKGEELFTGVVPIVLVDGVDNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSGVQCFSRYPDMKHQDFFKSAMPEGVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
 DB 61 VTTFSGVQCFSRYPDMKHQDFFKSAMPEGVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFEDGNILGHKLEYNNSHNYIMADPKNGIKVNFKIRHNIXDGSVOLAD 180
 DB 121 NRIELKGIDFEDGNILGHKLEYNNSHNYIMADPKNGIKVNFKIRHNIXDGSVOLAD 180

QY 181 HYQONTPIGDGVPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
 DB 181 HYQONTPIGDGVPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 15
 US-09-479-645A-10
 Sequence 10, Application US/09479645A
 Patent No. 6489141
 GENERAL INFORMATION:
 APPLICANT: FRAZER, Ian Hector
 APPLICANT: ZHOU, Jian
 TITLE OF INVENTION: NUCLEIC ACID SEQUENCE AND METHOD FOR SELECTIVELY
 TITLE OF INVENTION: EXPRESSING A PROTEIN IN A TARGET CELL OR TISSUE
 FILE REFERENCE: 210338.0001/LUS

```

; CURRENT APPLICATION NUMBER: US/09/479,645A
; CURRENT FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: PCT/AU98/00530
; PRIOR FILING DATE: 1998-07-09
; PRIOR APPLICATION NUMBER: AU P07765
; PRIOR FILING DATE: 1997-07-09
; PRIOR APPLICATION NUMBER: AU P09467
; PRIOR FILING DATE: 1997-09-11
; NUMBER OF SEQ ID NOS: 219
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Aequorea
; OTHER INFORMATION: victoria gfp gene (humanized)
US-09-479-645A-10

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Query Match          98.0%; Score 1251; DB 4; Length 238;
Best Local Similarity 97.5%; Pred. No. 8.5e-127;
Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1  MSKGELEFTGVVPIVLVELDGVNGQKFSVSGEGEGDATYGKLTILKFTCTTGKLPVNPETL 60
Db      1  MSKGELEFTGVVPIVLVELDGVNGHGFVSVEGEGDATYGKLTILKFTCTTGKLPVNPETL 60

QY      61  VTTFSGVQCFSRYPDHMKQHDFFPKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Db      61  VTTFSGVQCFSRYPDHMKQHDFFPKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120

QY      121  NRTELKGDIDPKEDGNILGHKMEYNNSHNVYIMADKPKNGIKVNFKIRHNKIDGVSQVLAD 180
Db      121  NRTELKGDIDPKEDGNILGHKLEYNNSHNVYIMADKQKNGIKVNFKIRHNIEDGVSQVLAD 180

QY      181  HYQONTPIGDGFVLLPDNHYLSTQSALSQKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db      181  HYQONTPIGDGFVLLPDNHYLSTQSALSQKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

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Search completed: June 18, 2004, 12:52:31
Job time : 23 secs